

AMENDMENTS TO THE CLAIMS

1 - 8. (Canceled)

9. (Currently Amended) ~~The A~~ high efficiency amplifier including input signal dividing means for splitting an input signal, comprising according to claim 8, further comprising: a first amplifier for amplifying a first input signal fed from said input signal dividing means;

a second amplifier for amplifying, when power of a second input signal fed from said input signal dividing means is greater than specified power, the second input signal;

a combining circuit for combining an output signal of said first amplifier and an output signal of said second amplifier, said high efficiency amplifier comprising before said first amplifier;

a first waveform shaping circuit for limiting, when amplitude of the first input signal fed from said input signal dividing means is greater than a specified level, the amplitude of the first input signal to less than the specified level, and for supplying to said first amplifier;

a second waveform shaping circuit for suppressing the output of a signal when amplitude of the second input signal fed from said input signal dividing means is less than a specified level before said second amplifier;

a first distortion compensation circuit for compensating for nonlinear distortion of said first amplifier before said first amplifier;

a second distortion compensation circuit for compensating for nonlinear distortion of said second amplifier before said second amplifier;

a first adaptive control circuit for varying parameters of said first distortion compensation circuit in response to the output signal of said first amplifier; and

a second adaptive control circuit for varying parameters of said second distortion compensation circuit in response to the output signal of said second amplifier.

10. (Canceled)

11. (Original) The high efficiency amplifier according to ~~claim 10~~claim 9, wherein said first waveform shaping circuit has a characteristic of gradually limiting the amplitude of the input signal as the amplitude of the input signal approaches the specified level.

12 - 13. (Canceled)